

# I-Chao Shen

jdilyshen@gmail.com +886953610258

Room 501, CSIE Building, National Taiwan University

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## Research Interests

- Data-driven 2D/3D geometry analysis and processing, (Stereo) Image/Video Editing.

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## Education

- **National Taiwan University** **Taipei, Taiwan**  
*Ph.D. student* in Computer Science  
Advisor: Bing-Yu Chen.  
*Sep 2017 -*
- **National Taiwan University** **Taipei, Taiwan**  
*Master in Information Management and MBA*  
Advisor: Bing-Yu Chen.  
Thesis: “Perspective-aware Warping for Seamless Stereoscopic Image Cloning”.  
*Sep 2009 - June 2011*
- **National Taiwan University** **Taipei, Taiwan**  
*Bachelor in Information Management*  
*Sep 2005 - June 2009*

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## Experiences

- **Research visitor - JST CREST Project**, Tokyo, Japan *Feb 2018 - July 2018*  
Supervisor : Takeo Igarashi
- **Research Assistant - Imager Lab, The University of British Columbia**,  
Vancouver, Canada *Sep 2014 - Mar 2017*  
Supervisor : Alla Sheffer
- **Research Intern - Imagination Lab, Adobe Research**, San Jose, CA *May 2015 - Aug 2015*  
Supervisor : Nathan Carr, Duygu Ceylan, Zhaowen Wang
- **Research Assistant - CITI, Academia Sinica**, Taipei, Taiwan *Sep 2011 - July 2014*  
Supervisor : Wen-Huang Cheng

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## Publications

- **Perception-Driven Semi-Structured Boundary Vectorization**  
Shayan Hoshyari, Edoardo Dominici, Alla Sheffer, Nathan Carr, Duygu Ceylan, Zhaowen Wang, I-Chao Shen  
ACM Transactions on Graphics (Proceedings of SIGGRAPH 2018), to appear.
- **High-resolution 360 Video Foveated Stitching for Real-time VR**  
Wei-Tse Lee\*, Hsin-I Chen\*, Ming-Shiuan Chen, I-Chao Shen and Bing-Yu Chen  
Computer Graphics Forum (Proceedings of Pacific Graphics 2017)
- **A Scalable Active Framework for Region Annotation in 3D Shape Collections**  
Li Yi, Vladimir G. Kim, Duygu Ceylan, I-Chao Shen, Mengyan Yan, Hao Su, Cewu Lu, Qixing Huang, Alla Sheffer, and Leonidas Guibas  
ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia 2016)
- **Retargeting 3D Objects and Scenes with a General Framework**  
Chun-Kai Huang, Yi-Ling Chen, I-Chao Shen, and Bing-Yu Chen  
Computer Graphics Forum (Proceedings of Pacific Graphics 2016)
- **Data-driven Handwriting Synthesis in a Conjoined Manner**  
Hsin-Yi Chen, Tse-Ju Lin, I-Chao Shen, and Bing-Yu Chen  
Computer Graphics Forum (Proceedings of Pacific Graphics 2015)
- **Gestalt Rule Feature Points**  
I-Chao Shen, and Wen-Huang Cheng  
IEEE Transactions on Multimedia (TMM), 17(4), pp. 526-537, 2015

- **Geometrically Consistent Stereoscopic Image Editing using Patch-based Synthesis**  
Sheng-Jie Luo, Ying-Tse Sun, I-Chao Shen, Bing-Yu Chen, and Yung-Yu Chuang  
IEEE Transactions on Visualization and Computer Graphics (TVCG), 21(1), pp. 56-67, 2015
- **Stroke-guided Image Synthesis for Skeletal Structure Editing**  
Sheng-Jie Luo, Chin-Yu Lin, I-Chao Shen, and Bing-Yu Chen  
Computer Graphics Forum (Proceedings of Pacific Graphics 2013)
- **Perspective-Aware Warping for Seamless Stereoscopic Image Cloning**  
Sheng-Jie Luo, I-Chao Shen, Bing-Yu Chen, Wen-Huang Cheng, and Yung-Yu Chuang  
ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia 2012).

## Teaching Experiences

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- **Teaching Assistant**  
– **Computer Organization and Structure** *National Taiwan University* *Sep 2009 - Jan 2010*

## Awards and Honors

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- MediaTek Fellowship *2017*

## Professional Services

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- **Reviewer:** SIGGRAPH, Pacific Graphics, CAD/Graphics, Multimedia, VRST